JC10 Rec'd PCT/PTO 25 APR 2005

PTO-1390 (Rev. 02-2005) Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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ATTORNEY'S DOCKET NUMBER TRANSMITTAL LETTER TO THE UNITED STATES PD-202074 DESIGNATED/ELECTED OFFICE (DO/EO/US) U.S. APPLICATION NO (Iftgrown, ree-97 GFR 1.5) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/US03/033255 20 October 2003 25 October 2002 TITLE OF INVENTION FEEDER LINK CONFIGURATIONS TO SUPPORT LAYERED MODULATION APPLICANT(S) FOR DO/EO/US PAUL R. ANDERSON, JOSEPH SANTORU and ERNEST C. CHEN Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31).

XA copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. c. X is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. X An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Other items or information:

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. ATTORNEY'S DOCKET NUMBER The following fees have been submitted CALCULATIONS PTO USE ONLY 21. Basic national fee.....\$300 300.00 Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of 200,00 X Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....\$100 International Search Report prepared and provided to the Office..... All other situations.....\$500 100.00 600.00 TOTAL OF 21, 22 and 23 = Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. **Total Sheets** RATE Extra Sheets Number of each additional 50 or fraction thereof (round up to a whole number) - 100 = /50 = x \$250 Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)). NUMBER FILED **CLAIMS** NUMBER EXTRA RATE \$ Total claims - 20 = x \$ 50 68 48 2400.00 Independent claims Я 5 \$200 \$ 1000.00 MULTIPLE DEPENDENT CLAIM(S) (if applicable) \$360 \$ 3400.00 **TOTAL OF ABOVE CALCULATIONS =** \$ Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2 4000.00 SUBTOTAL = Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest \$ claimed priority date (37 CFR 1.492(i)). TOTAL NATIONAL FEE = \$ 4000.00 Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property 40.00 TOTAL FEES ENCLOSED = 4040.00 Amount to be \$ refunded: Amount to be \$ charged: A check in the amount of \$ to cover the above fees is enclosed. Please charge my Deposit Account No. 50-0383 in the amount of \$4040.00 to cover the above fees. A duplicate copy of this sheet is enclosed. c. [X] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. $\frac{50-0383}{0}$. A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: The DIRECTV Group, Inc. RE/R11/A109 dann S. Grune<u>bach</u> P. O. Box 956 NAME El Segundo, California 90245 33,179

REGISTRATION NUMBER

IN T UNITED STATES PATENT AND TRADEM c'd PCT/PTC 2 5 APR 2005

Applicant(s): Paul R. Anderson, Joseph Santoru and Ernest C. Chen

Docket No.: PD-202074

Title:

FEEDER LINK CONFIGURATIONS TO SUPPORT LAYERED MODULATION

CERTIFICATE OF MAILING UNDER 37 CFR 1.10

Express Mail mailing label number: EU433761969US

Date of Deposit: April 25, 2005

I hereby certify that this paper or fee is being deposited with the United States Postal Service 'Express Mail Post Office To Addressee' service under 37 CFR 1.10 and is addressed to Mail Stop PCT, Commissioner for Patents, P/O. Box 1450, Afexandria VA 22313-1450.

\$. Grunebach, Reg. No. 33,179 Georgann

MAIL STOP PCT

Commissioner for Patents

P. O. Box 1450

Alexandria VA 22313-1450

Dear Sir:

We are transmitting herewith the attached:

- \boxtimes Transmittal sheet, in duplicate, containing Certificate of Mailing Under 37 CFR 1.10.
- \mathbf{X} Form PTO-1390: TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C.

The fee has been calculated as shown below in the "Claims as Filed" table.

- \times Copy of Declaration of Inventorship as filed in PCT/US03/033255.
- \mathbf{X} Preliminary Amendment (22 pages)
- X Copy of Assignment and Assignment Recordal Cover Sheet.
- A charge to Deposit Account in the amount of \$4000.00 to cover the Total National Fee \mathbf{X} and \$40.00 to cover the Assignment Recordal Fee (Total Fees: \$4040.00)
- X Return postcard.

CLAIMS AS EILED

Number of Claims Filed	In Excess of:	T	Number		Rate		Fee
			Extra				
Basic National Stage Fee							\$300.00
National Stage Search Fee-US was ISA							\$100.00
National Stage Examination Fee-All other							\$200.00
situations							
Total Claims							
68	20	=	48	X	\$50.00	=	\$2400.00
Independent Claims							
8	3	=	5	х	\$200.00	=	\$1000.00
MULTIPLE DEPENDENT CLAIM FEE							
TOTAL NATIONAL FEE							\$4000.00

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\$40.00

\$4040.00

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Please charge all fees to Deposit Account No. 50-0383 of The DIRECTV Group, Inc. (formerly Hughes Electronics Corporation), El Segundo, California. A duplicate of this sheet is enclosed.

By

Georgann S. Grunebach Reg/No. 33,179

The DIRECTV Group, Inc. RE/R11/A109 2250 E. Imperial Highway P. O. Box 956 El Segundo, CA 90245

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